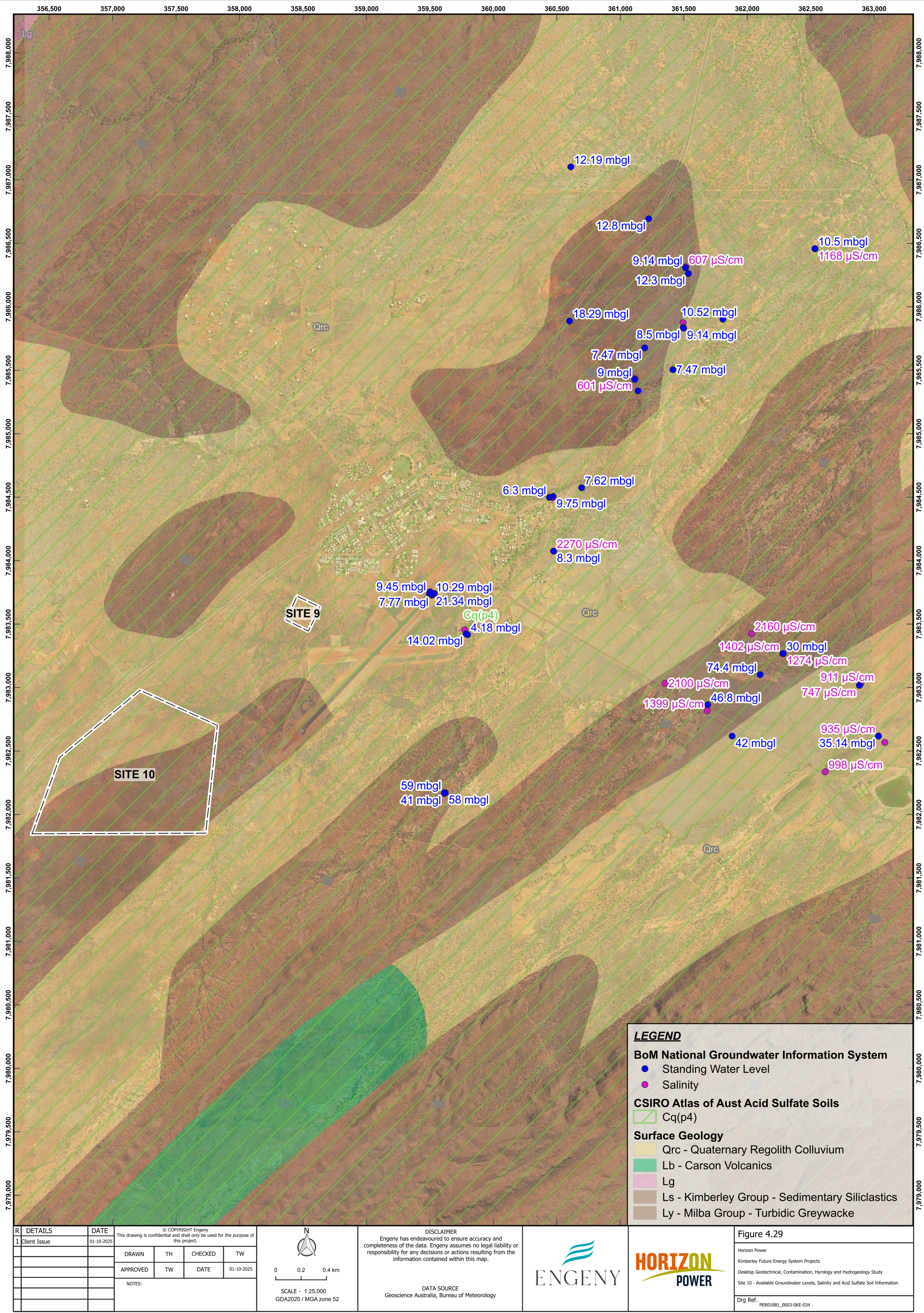
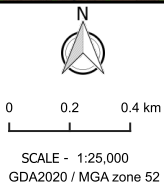




R	DETAILS	DATE	© COPYRIGHT Engeny This drawing is confidential and shall only be used for the purpose of this project.			
1	Client Issue	01-10-2025				
			DRAWN	TH	CHECKED	TW
			APPROVED	TW	DATE	01-10-2025
			NOTES:			



DISCLAIMER
Engeny has endeavoured to ensure accuracy and completeness of the data. Engeny assumes no legal liability or responsibility for any decisions or actions resulting from the information contained within this map.

DATA SOURCE
Geoscience Australia, Bureau of Meteorology



APPENDIX G: RISK ASSESSMENT



Risk Register

Project: Kimberley Desktop Geotechnical and Hydrology Study
Date: 3/10/2025

Document Number: PER01881_0003-REG-001
Revision: 0



Overview

Discipline	Characteristics									Site 9 - Existing Halls Creek Power Station	Site 10 - Subsite C3
Geotechnical	Soil Reactivity	Moderate	High	High	Moderate	High	High	Moderate	Moderate	Moderate	Unknown
Geotechnical	Collapsibility	Moderate	High	High	Moderate	High	High	Unknown	Unknown	Unknown	Unknown
Geotechnical	Dispersion Potential	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Geotechnical	Excavatability	Low	Low	Low	Low	Low	Low	Moderate	Moderate	Moderate	High
Geotechnical	Seismic Risk	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
Geotechnical	Constructability	Moderate	High	High	Moderate	High	High	Unknown	Unknown	Unknown	Unknown
Flooding and Erosion	Erosion Potential	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Flooding and Erosion	IECA Erosion Hazard	High	High	High	High	High	High	High	High	High	High
Baseline Contamination	Register Search		Very Low	Very Low	High	Very Low		Low	Low	Low	Very Low
Baseline Contamination	Local Planning Site		Very Low	Very Low	Low	Very Low		Moderate	Moderate	High	Very Low
Baseline Contamination	Historical Records		Very Low	Very Low	Low	Very Low		Low	Low	Low	Very Low
Baseline Contamination	Aerial Imagery Review		Very Low	Very Low	Moderate	Very Low		High	Moderate	Low	Very Low
Baseline Contamination	Former Fuel Storage		Very Low	Very Low	High	Very Low		High	Moderate	High	Very Low
Baseline Contamination	Former Waste Disposal		Very Low	Very Low	Moderate	Very Low		High	Low	Low	Very Low
Baseline Contamination	Former Industrial Land Use		Very Low	Very Low	High	Very Low		High	Very Low	High	Very Low
Baseline Contamination	Previous Contamination Investigations		Very Low	Very Low	High	Very Low		Low	Very Low	Low	Very Low
Baseline Contamination	Previous Remediation Works		Very Low	Very Low	High	Very Low		Low	Very Low	Low	Very Low
Baseline Contamination	Nearby Service Stations		Very Low	Very Low	Moderate	Very Low		Moderate	Very Low	Moderate	Very Low
Baseline Contamination	Nearby Fire Stations		Very Low	Very Low	Moderate	Very Low		Low	Very Low	Moderate	Low
Baseline Contamination	Nearby Waste Disposal / Treatment		Moderate	Very Low	High	Very Low		Low	Very Low	Low	Low
Flooding and Erosion	Coastal Flood Risk	N/A - Not Assessed	Moderate	Very Low	N/A - Not Assessed	Low	Very Low	N/A - Not Assessed	Very Low	N/A - Not Assessed	Very Low
Flooding and Erosion	Waterways Within Site Footprint	N/A - Not Assessed	Very Low	Very Low	N/A - Not Assessed	Very Low	Very Low	N/A - Not Assessed	Very Low	N/A - Not Assessed	Low
Flooding and Erosion	Unmapped Watercourses Within Site Footprint	N/A - Not Assessed	Moderate	Low	N/A - Not Assessed	Low	Low	N/A - Not Assessed	Very Low	N/A - Not Assessed	Very Low
Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	N/A - Not Assessed	Low	Very Low	N/A - Not Assessed	Very Low	Very Low	N/A - Not Assessed	Very Low	N/A - Not Assessed	Very Low
Groundwater & Acid Sulfate Soil	Groundwater Level	N/A - Not Assessed	Low	Low	N/A - Not Assessed	Low	Low	N/A - Not Assessed	Low	N/A - Not Assessed	Low
Groundwater & Acid Sulfate Soil	Groundwater Quality	N/A - Not Assessed	Low	Low	N/A - Not Assessed	Low	Low	N/A - Not Assessed	Low	N/A - Not Assessed	Low
Groundwater & Acid Sulfate Soil	Groundwater Dependent Ecosystems	N/A - Not Assessed	Low	Low	N/A - Not Assessed	Very Low	Very Low	N/A - Not Assessed	Very Low	N/A - Not Assessed	Very Low
Groundwater & Acid Sulfate Soil	Acid Sulfate Soil	N/A - Not Assessed	Low	Very Low	N/A - Not Assessed	Very Low	Very Low	N/A - Not Assessed	Very Low	N/A - Not Assessed	Very Low
Subterranean Fauna	Subterranean Environment	N/A - Not Assessed	Low	Very Low	N/A - Not Assessed	Low	Low	N/A - Not Assessed	Very Low	N/A - Not Assessed	Very Low

Risk Register

Project: Kimberley Desktop Geotechnical and Hydrology Study
Date: 3/10/2025

Document Number: PER01881_0003-REG-001
Revision: 0



Summary Register

Location	Site ID	Facility	Discipline	Topic	Risk
Broome	Site 1		Geotechnical	Soil Reactivity	Moderate
Broome	Site 1		Geotechnical	Collapsibility	Moderate
Broome	Site 1		Geotechnical	Dispersion Potential	Unknown
Broome	Site 1		Geotechnical	Excavatability	Low
Broome	Site 1		Geotechnical	Seismic Risk	Low
Broome	Site 1		Geotechnical	Constructability	Moderate
Broome	Site 1		Flooding and Erosion	Erosion Potential	Moderate
Broome	Site 1		Flooding and Erosion	IECA Erosion Hazard	High
Broome	Site 1		Baseline Contamination	Register Search	High (Lot 1049)
Broome	Site 1		Baseline Contamination	Local Planning Site	
Broome	Site 1		Baseline Contamination	Historical Records	
Broome	Site 1		Baseline Contamination	Aerial Imagery Review	
Broome	Site 1		Baseline Contamination	Former Fuel Storage	
Broome	Site 1		Baseline Contamination	Former Waste Disposal	
Broome	Site 1		Baseline Contamination	Former Industrial Land Use	
Broome	Site 1		Baseline Contamination	Previous Contamination Investigations	
Broome	Site 1		Baseline Contamination	Previous Remediation Works	)
Broome	Site 1		Baseline Contamination	Nearby Service Stations	
Broome	Site 1		Baseline Contamination	Nearby Fire Stations	
Broome	Site 1		Baseline Contamination	Nearby Waste Disposal / Treatment	
Broome	Site 1		Flooding and Erosion	Coastal Flood Risk	N/A - Not Assessed
Broome	Site 1		Flooding and Erosion	Waterways Within Site Footprint	N/A - Not Assessed
Broome	Site 1		Flooding and Erosion	Unmapped Watercourses Within Site Footprint	N/A - Not Assessed
Broome	Site 1		Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	N/A - Not Assessed
Broome	Site 1		Groundwater and Acid Sulfate Soil	Groundwater Level	N/A - Not Assessed
Broome	Site 1		Groundwater and Acid Sulfate Soil	Groundwater Quality	N/A - Not Assessed
Broome	Site 1		Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	N/A - Not Assessed
Broome	Site 1		Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	N/A - Not Assessed
Broome	Site 1		Subterranean Fauna	Subterranean Environment	N/A - Not Assessed
Broome	Site 2		Geotechnical	Soil Reactivity	High
Broome	Site 2		Geotechnical	Collapsibility	High
Broome	Site 2		Geotechnical	Dispersion Potential	Unknown
Broome	Site 2		Geotechnical	Excavatability	Low
Broome	Site 2		Geotechnical	Seismic Risk	Low
Broome	Site 2		Geotechnical	Constructability	High
Broome	Site 2		Flooding and Erosion	Erosion Potential	Moderate
Broome	Site 2		Flooding and Erosion	IECA Erosion Hazard	High
Broome	Site 2		Baseline Contamination	Register Search	Very Low
Broome	Site 2		Baseline Contamination	Local Planning Site	Very Low
Broome	Site 2		Baseline Contamination	Historical Records	Very Low
Broome	Site 2		Baseline Contamination	Aerial Imagery Review	Very Low
Broome	Site 2		Baseline Contamination	Former Fuel Storage	Very Low
Broome	Site 2		Baseline Contamination	Former Waste Disposal	Very Low
Broome	Site 2		Baseline Contamination	Former Industrial Land Use	Very Low
Broome	Site 2		Baseline Contamination	Previous Contamination Investigations	Very Low

Location	Site ID	Facility	Discipline	Topic	Risk
Broome	Site 2		Baseline Contamination	Previous Remediation Works	Very Low
Broome	Site 2		Baseline Contamination	Nearby Service Stations	Very Low
Broome	Site 2		Baseline Contamination	Nearby Fire Stations	Very Low
Broome	Site 2		Baseline Contamination	Nearby Waste Disposal / Treatment	Moderate
Broome	Site 2		Flooding and Erosion	Coastal Flood Risk	Moderate
Broome	Site 2		Flooding and Erosion	Waterways Within Site Footprint	Very Low
Broome	Site 2		Flooding and Erosion	Unmapped Watercourses Within Site Footprint	Moderate
Broome	Site 2		Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	Low
Broome	Site 2		Groundwater and Acid Sulfate Soil	Groundwater Level	Low
Broome	Site 2		Groundwater and Acid Sulfate Soil	Groundwater Quality	Low
Broome	Site 2		Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	Low
Broome	Site 2		Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	Low
Broome	Site 2		Subterranean Fauna	Subterranean Environment	Low
Broome	Site 3		Geotechnical	Soil Reactivity	High
Broome	Site 3		Geotechnical	Collapsibility	High
Broome	Site 3		Geotechnical	Dispersion Potential	Unknown
Broome	Site 3		Geotechnical	Excavatability	Low
Broome	Site 3		Geotechnical	Seismic Risk	Low
Broome	Site 3		Geotechnical	Constructability	High
Broome	Site 3		Flooding and Erosion	Erosion Potential	Moderate
Broome	Site 3		Flooding and Erosion	IECA Erosion Hazard	High
Broome	Site 3		Baseline Contamination	Register Search	Very Low
Broome	Site 3		Baseline Contamination	Local Planning Site	Very Low
Broome	Site 3		Baseline Contamination	Historical Records	Very Low
Broome	Site 3		Baseline Contamination	Aerial Imagery Review	Very Low
Broome	Site 3		Baseline Contamination	Former Fuel Storage	Very Low
Broome	Site 3		Baseline Contamination	Former Waste Disposal	Very Low
Broome	Site 3		Baseline Contamination	Former Industrial Land Use	Very Low
Broome	Site 3		Baseline Contamination	Previous Contamination Investigations	Very Low
Broome	Site 3		Baseline Contamination	Previous Remediation Works	Very Low
Broome	Site 3		Baseline Contamination	Nearby Service Stations	Very Low
Broome	Site 3		Baseline Contamination	Nearby Fire Stations	Very Low
Broome	Site 3		Baseline Contamination	Nearby Waste Disposal / Treatment	Very Low
Broome	Site 3		Flooding and Erosion	Coastal Flood Risk	Very Low
Broome	Site 3		Flooding and Erosion	Waterways Within Site Footprint	Very Low
Broome	Site 3		Flooding and Erosion	Unmapped Watercourses Within Site Footprint	Low
Broome	Site 3		Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	Very Low
Broome	Site 3		Groundwater and Acid Sulfate Soil	Groundwater Level	Low
Broome	Site 3		Groundwater and Acid Sulfate Soil	Groundwater Quality	Low
Broome	Site 3		Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	Low
Broome	Site 3		Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	Very Low
Broome	Site 3		Subterranean Fauna	Subterranean Environment	Very Low
Derby	Site 4		Geotechnical	Soil Reactivity	Moderate
Derby	Site 4		Geotechnical	Collapsibility	Moderate
Derby	Site 4		Geotechnical	Dispersion Potential	Unknown
Derby	Site 4		Geotechnical	Excavatability	Low
Derby	Site 4		Geotechnical	Seismic Risk	Low
Derby	Site 4		Geotechnical	Constructability	Moderate
Derby	Site 4		Flooding and Erosion	Erosion Potential	Moderate

Location	Site ID	Facility	Discipline	Topic	Risk
Derby	Site 4		Flooding and Erosion	IECA Erosion Hazard	High
Derby	Site 4		Baseline Contamination	Register Search	High
Derby	Site 4		Baseline Contamination	Local Planning Site	Low
Derby	Site 4		Baseline Contamination	Historical Records	Low
Derby	Site 4		Baseline Contamination	Aerial Imagery Review	Moderate
Derby	Site 4		Baseline Contamination	Former Fuel Storage	High
Derby	Site 4		Baseline Contamination	Former Waste Disposal	Moderate
Derby	Site 4		Baseline Contamination	Former Industrial Land Use	High
Derby	Site 4		Baseline Contamination	Previous Contamination Investigations	High
Derby	Site 4		Baseline Contamination	Previous Remediation Works	High
Derby	Site 4		Baseline Contamination	Nearby Service Stations	Moderate
Derby	Site 4		Baseline Contamination	Nearby Fire Stations	Moderate
Derby	Site 4		Baseline Contamination	Nearby Waste Disposal / Treatment	High
Derby	Site 4		Flooding and Erosion	Coastal Flood Risk	N/A - Not Assessed
Derby	Site 4		Flooding and Erosion	Waterways Within Site Footprint	N/A - Not Assessed
Derby	Site 4		Flooding and Erosion	Unmapped Watercourses Within Site Footprint	N/A - Not Assessed
Derby	Site 4		Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	N/A - Not Assessed
Derby	Site 4		Groundwater and Acid Sulfate Soil	Groundwater Level	N/A - Not Assessed
Derby	Site 4		Groundwater and Acid Sulfate Soil	Groundwater Quality	N/A - Not Assessed
Derby	Site 4		Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	N/A - Not Assessed
Derby	Site 4		Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	N/A - Not Assessed
Derby	Site 4		Subterranean Fauna	Subterranean Environment	N/A - Not Assessed
Derby	Site 5		Geotechnical	Soil Reactivity	High
Derby	Site 5		Geotechnical	Collapsibility	High
Derby	Site 5		Geotechnical	Dispersion Potential	Unknown
Derby	Site 5		Geotechnical	Excavatability	Low
Derby	Site 5		Geotechnical	Seismic Risk	Low
Derby	Site 5		Geotechnical	Constructability	High
Derby	Site 5		Flooding and Erosion	Erosion Potential	Moderate
Derby	Site 5		Flooding and Erosion	IECA Erosion Hazard	High
Derby	Site 5		Baseline Contamination	Register Search	Very Low
Derby	Site 5		Baseline Contamination	Local Planning Site	Very Low
Derby	Site 5		Baseline Contamination	Historical Records	Very Low
Derby	Site 5		Baseline Contamination	Aerial Imagery Review	Very Low
Derby	Site 5		Baseline Contamination	Former Fuel Storage	Very Low
Derby	Site 5		Baseline Contamination	Former Waste Disposal	Very Low
Derby	Site 5		Baseline Contamination	Former Industrial Land Use	Very Low
Derby	Site 5		Baseline Contamination	Previous Contamination Investigations	Very Low
Derby	Site 5		Baseline Contamination	Previous Remediation Works	Very Low
Derby	Site 5		Baseline Contamination	Nearby Service Stations	Very Low
Derby	Site 5		Baseline Contamination	Nearby Fire Stations	Very Low
Derby	Site 5		Baseline Contamination	Nearby Waste Disposal / Treatment	Very Low
Derby	Site 5		Flooding and Erosion	Coastal Flood Risk	Low
Derby	Site 5		Flooding and Erosion	Waterways Within Site Footprint	Very Low
Derby	Site 5		Flooding and Erosion	Unmapped Watercourses Within Site Footprint	Low
Derby	Site 5		Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	Very Low
Derby	Site 5		Groundwater and Acid Sulfate Soil	Groundwater Level	Low
Derby	Site 5		Groundwater and Acid Sulfate Soil	Groundwater Quality	Low
Derby	Site 5		Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	Very Low

Location	Site ID	Facility	Discipline	Topic	Risk
Derby	Site 5		Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	Very Low
Derby	Site 5		Subterranean Fauna	Subterranean Environment	Low
Derby	Site 6		Geotechnical	Soil Reactivity	High
Derby	Site 6		Geotechnical	Collapsibility	High
Derby	Site 6		Geotechnical	Dispersion Potential	Unknown
Derby	Site 6		Geotechnical	Excavatability	Low
Derby	Site 6		Geotechnical	Seismic Risk	Low
Derby	Site 6		Geotechnical	Constructability	High
Derby	Site 6		Flooding and Erosion	Erosion Potential	Moderate
Derby	Site 6		Flooding and Erosion	IECA Erosion Hazard	High
Derby	Site 6		Baseline Contamination	Register Search	
Derby	Site 6		Baseline Contamination	Local Planning Site	
Derby	Site 6		Baseline Contamination	Historical Records	
Derby	Site 6		Baseline Contamination	Aerial Imagery Review	
Derby	Site 6		Baseline Contamination	Former Fuel Storage	
Derby	Site 6		Baseline Contamination	Former Waste Disposal	
Derby	Site 6		Baseline Contamination	Former Industrial Land Use	
Derby	Site 6		Baseline Contamination	Previous Contamination Investigations	
Derby	Site 6		Baseline Contamination	Previous Remediation Works	
Derby	Site 6		Baseline Contamination	Nearby Service Stations	
Derby	Site 6		Baseline Contamination	Nearby Fire Stations	
Derby	Site 6		Baseline Contamination	Nearby Waste Disposal / Treatment	
Derby	Site 6		Flooding and Erosion	Coastal Flood Risk	Very Low
Derby	Site 6		Flooding and Erosion	Waterways Within Site Footprint	Very Low
Derby	Site 6		Flooding and Erosion	Unmapped Watercourses Within Site Footprint	Low
Derby	Site 6		Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	Very Low
Derby	Site 6		Groundwater and Acid Sulfate Soil	Groundwater Level	Low
Derby	Site 6		Groundwater and Acid Sulfate Soil	Groundwater Quality	Low
Derby	Site 6		Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	Very Low
Derby	Site 6		Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	Very Low
Derby	Site 6		Subterranean Fauna	Subterranean Environment	Low
Fitzroy Crossing	Site 7		Geotechnical	Soil Reactivity	Moderate
Fitzroy Crossing	Site 7		Geotechnical	Collapsibility	Unknown
Fitzroy Crossing	Site 7		Geotechnical	Dispersion Potential	Unknown
Fitzroy Crossing	Site 7		Geotechnical	Excavatability	Moderate
Fitzroy Crossing	Site 7		Geotechnical	Seismic Risk	Low
Fitzroy Crossing	Site 7		Geotechnical	Constructability	Unknown
Fitzroy Crossing	Site 7		Flooding and Erosion	Erosion Potential	Moderate
Fitzroy Crossing	Site 7		Flooding and Erosion	IECA Erosion Hazard	High
Fitzroy Crossing	Site 7		Baseline Contamination	Register Search	Low
Fitzroy Crossing	Site 7		Baseline Contamination	Local Planning Site	Moderate
Fitzroy Crossing	Site 7		Baseline Contamination	Historical Records	Low
Fitzroy Crossing	Site 7		Baseline Contamination	Aerial Imagery Review	High
Fitzroy Crossing	Site 7		Baseline Contamination	Former Fuel Storage	High
Fitzroy Crossing	Site 7		Baseline Contamination	Former Waste Disposal	High
Fitzroy Crossing	Site 7		Baseline Contamination	Former Industrial Land Use	High
Fitzroy Crossing	Site 7		Baseline Contamination	Previous Contamination Investigations	Low
Fitzroy Crossing	Site 7		Baseline Contamination	Previous Remediation Works	Low
Fitzroy Crossing	Site 7		Baseline Contamination	Nearby Service Stations	Moderate
Fitzroy Crossing	Site 7		Baseline Contamination	Nearby Fire Stations	Low

Location	Site ID	Facility	Discipline	Topic	Risk
Fitzroy Crossing	Site 7		Baseline Contamination	Nearby Waste Disposal / Treatment	Low
Fitzroy Crossing	Site 7		Flooding and Erosion	Coastal Flood Risk	N/A - Not Assessed
Fitzroy Crossing	Site 7		Flooding and Erosion	Waterways Within Site Footprint	N/A - Not Assessed
Fitzroy Crossing	Site 7		Flooding and Erosion	Unmapped Watercourses Within Site Footprint	N/A - Not Assessed
Fitzroy Crossing	Site 7		Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	N/A - Not Assessed
Fitzroy Crossing	Site 7		Groundwater and Acid Sulfate Soil	Groundwater Level	N/A - Not Assessed
Fitzroy Crossing	Site 7		Groundwater and Acid Sulfate Soil	Groundwater Quality	N/A - Not Assessed
Fitzroy Crossing	Site 7		Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	N/A - Not Assessed
Fitzroy Crossing	Site 7		Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	N/A - Not Assessed
Fitzroy Crossing	Site 7		Subterranean Fauna	Subterranean Environment	N/A - Not Assessed
Looma-Camballin	Site 8		Geotechnical	Soil Reactivity	Moderate
Looma-Camballin	Site 8		Geotechnical	Collapsibility	Unknown
Looma-Camballin	Site 8		Geotechnical	Dispersion Potential	Unknown
Looma-Camballin	Site 8		Geotechnical	Excavatability	Moderate
Looma-Camballin	Site 8		Geotechnical	Seismic Risk	Low
Looma-Camballin	Site 8		Geotechnical	Constructability	Unknown
Looma-Camballin	Site 8		Flooding and Erosion	Erosion Potential	Moderate
Looma-Camballin	Site 8		Flooding and Erosion	IECA Erosion Hazard	High
Looma-Camballin	Site 8		Baseline Contamination	Register Search	Low
Looma-Camballin	Site 8		Baseline Contamination	Local Planning Site	Moderate
Looma-Camballin	Site 8		Baseline Contamination	Historical Records	Low
Looma-Camballin	Site 8		Baseline Contamination	Aerial Imagery Review	Moderate
Looma-Camballin	Site 8		Baseline Contamination	Former Fuel Storage	Moderate
Looma-Camballin	Site 8		Baseline Contamination	Former Waste Disposal	Low
Looma-Camballin	Site 8		Baseline Contamination	Former Industrial Land Use	Very Low
Looma-Camballin	Site 8		Baseline Contamination	Previous Contamination Investigations	Very Low
Looma-Camballin	Site 8		Baseline Contamination	Previous Remediation Works	Very Low
Looma-Camballin	Site 8		Baseline Contamination	Nearby Service Stations	Very Low
Looma-Camballin	Site 8		Baseline Contamination	Nearby Fire Stations	Very Low
Looma-Camballin	Site 8		Baseline Contamination	Nearby Waste Disposal / Treatment	Very Low
Looma-Camballin	Site 8		Flooding and Erosion	Coastal Flood Risk	Very Low
Looma-Camballin	Site 8		Flooding and Erosion	Waterways Within Site Footprint	Very Low
Looma-Camballin	Site 8		Flooding and Erosion	Unmapped Watercourses Within Site Footprint	Very Low
Looma-Camballin	Site 8		Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	Very Low
Looma-Camballin	Site 8		Groundwater and Acid Sulfate Soil	Groundwater Level	Low
Looma-Camballin	Site 8		Groundwater and Acid Sulfate Soil	Groundwater Quality	Low
Looma-Camballin	Site 8		Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	Very Low
Looma-Camballin	Site 8		Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	Very Low
Looma-Camballin	Site 8		Subterranean Fauna	Subterranean Environment	Very Low
Halls Creek	Site 9	Existing Halls Creek Power Station	Geotechnical	Soil Reactivity	Moderate
Halls Creek	Site 9	Existing Halls Creek Power Station	Geotechnical	Collapsibility	Unknown
Halls Creek	Site 9	Existing Halls Creek Power Station	Geotechnical	Dispersion Potential	Unknown
Halls Creek	Site 9	Existing Halls Creek Power Station	Geotechnical	Excavatability	Moderate
Halls Creek	Site 9	Existing Halls Creek Power Station	Geotechnical	Seismic Risk	Low
Halls Creek	Site 9	Existing Halls Creek Power Station	Geotechnical	Constructability	Unknown
Halls Creek	Site 9	Existing Halls Creek Power Station	Flooding and Erosion	Erosion Potential	Moderate
Halls Creek	Site 9	Existing Halls Creek Power Station	Flooding and Erosion	IECA Erosion Hazard	High
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Register Search	Low
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Local Planning Site	High

Location	Site ID	Facility	Discipline	Topic	Risk
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Historical Records	Low
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Aerial Imagery Review	Low
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Former Fuel Storage	High
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Former Waste Disposal	Low
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Former Industrial Land Use	High
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Previous Contamination Investigations	Low
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Previous Remediation Works	Low
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Nearby Service Stations	Moderate
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Nearby Fire Stations	Moderate
Halls Creek	Site 9	Existing Halls Creek Power Station	Baseline Contamination	Nearby Waste Disposal / Treatment	Low
Halls Creek	Site 9	Existing Halls Creek Power Station	Flooding and Erosion	Coastal Flood Risk	N/A - Not Assessed
Halls Creek	Site 9	Existing Halls Creek Power Station	Flooding and Erosion	Waterways Within Site Footprint	N/A - Not Assessed
Halls Creek	Site 9	Existing Halls Creek Power Station	Flooding and Erosion	Unmapped Watercourses Within Site Footprint	N/A - Not Assessed
Halls Creek	Site 9	Existing Halls Creek Power Station	Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	N/A - Not Assessed
Halls Creek	Site 9	Existing Halls Creek Power Station	Groundwater and Acid Sulfate Soil	Groundwater Level	N/A - Not Assessed
Halls Creek	Site 9	Existing Halls Creek Power Station	Groundwater and Acid Sulfate Soil	Groundwater Quality	N/A - Not Assessed
Halls Creek	Site 9	Existing Halls Creek Power Station	Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	N/A - Not Assessed
Halls Creek	Site 9	Existing Halls Creek Power Station	Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	N/A - Not Assessed
Halls Creek	Site 9	Existing Halls Creek Power Station	Subterranean Fauna	Subterranean Environment	N/A - Not Assessed
Halls Creek	Site 10	Subsite C3	Geotechnical	Soil Reactivity	Unknown
Halls Creek	Site 10	Subsite C3	Geotechnical	Collapsibility	Unknown
Halls Creek	Site 10	Subsite C3	Geotechnical	Dispersion Potential	Unknown
Halls Creek	Site 10	Subsite C3	Geotechnical	Excavatability	High
Halls Creek	Site 10	Subsite C3	Geotechnical	Seismic Risk	Low
Halls Creek	Site 10	Subsite C3	Geotechnical	Constructability	Unknown
Halls Creek	Site 10	Subsite C3	Flooding and Erosion	Erosion Potential	Moderate
Halls Creek	Site 10	Subsite C3	Flooding and Erosion	IECA Erosion Hazard	High
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Register Search	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Local Planning Site	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Historical Records	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Aerial Imagery Review	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Former Fuel Storage	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Former Waste Disposal	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Former Industrial Land Use	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Previous Contamination Investigations	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Previous Remediation Works	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Nearby Service Stations	Very Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Nearby Fire Stations	Low
Halls Creek	Site 10	Subsite C3	Baseline Contamination	Nearby Waste Disposal / Treatment	Low
Halls Creek	Site 10	Subsite C3	Flooding and Erosion	Coastal Flood Risk	Very Low
Halls Creek	Site 10	Subsite C3	Flooding and Erosion	Waterways Within Site Footprint	Low
Halls Creek	Site 10	Subsite C3	Flooding and Erosion	Unmapped Watercourses Within Site Footprint	Very Low
Halls Creek	Site 10	Subsite C3	Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	Very Low
Halls Creek	Site 10	Subsite C3	Groundwater and Acid Sulfate Soil	Groundwater Level	Low
Halls Creek	Site 10	Subsite C3	Groundwater and Acid Sulfate Soil	Groundwater Quality	Low
Halls Creek	Site 10	Subsite C3	Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	Very Low
Halls Creek	Site 10	Subsite C3	Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	Very Low
Halls Creek	Site 10	Subsite C3	Subterranean Fauna	Subterranean Environment	Very Low

Location	Site ID	Facility	Proposed Works	Discipline	Topic	Risk	Commentary
							No site specific geotechnical data available.
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Geotechnical	Soil Reactivity	Moderate	No site specific geotechnical data available. Review of groundwater monitoring bore logs located within 1.5 km of the proposed site and intersecting regional geological units underlying the area, suggests the subsurface may comprise of CLAY, underlain by a mixture of volcanic and sedimentary rock. Noted that there is variance across the logs. Proposed site is underlain by geological unit Czs, suggesting that the site is underlain by aeolian deposits comprising Sand and Silt. Portion of site has existing infrastructure. Given the limited and contradicting data, the risk of soil reactivity impact to construction is considered moderate. It is noted that if the site did not have existing infrastructure the risk would be considered unknown given the limited geotechnical data.
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Geotechnical	Collapseability	Unknown	Proposed site is underlain by geological unit Czs, suggesting that the site is underlain by aeolian deposits comprising Sand and Silt. Review of groundwater monitoring bore logs located within 1 km of the proposed site and within same regional geological units underlying the area, suggests the subsurface may comprise of CLAY underlain by a mixture of volcanic rock. Noted that there is variance across the logs. Based on the limited data available there is potential to encounter collapsible soils, however without further geotechnical investigation the risk of collapsible soils is considered unknown.

Location	Site ID	Facility	Proposed Works	Discipline	Topic	Risk	Commentary
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Geotechnical	Dispersion Potential	Unknown	No site specific geotechnical data is available. Dispersion characteristics of soil vary with subsurface depth and location, therefore without construction details and soil quality testing the risk level is considered unknown.
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Geotechnical	Excavatability	Moderate	No site specific geotechnical data available. Regional Geology mapping indicates the site is underlain by SAND or SILT. Review of groundwater monitoring bore logs located within 1 km of the proposed site and within same regional geological units underlying the area, suggests the subsurface may comprise of CLAY underlain by a mixture of volcanic and sedimentary rock. Portion of site has existing infrastructure. Due to the potential of encountering volcanic rock (although likely deeper in the profile), lack of site specific information and that infrastructure exists on the proposed site, it is anticipated that if conventional civil earthworks equipment is utilised during construction there will be a moderate excavation risk.
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Geotechnical	Seismic Risk	Low	Australia is located central to the Indo-Australian tectonic place and the proposed site is far from active plate boundaries, generally seismic risk in Australia is considered low. Any works should be designed to meet relevant Australian Standards (AS1170.4). As per AS1170.4-2007 Halls Creek has a hazard design factor (Z) of 0.11. Further geotechnical investigations are required to determine site class. Infrastructure is already established on the proposed site, and based on aerial imagery, it appears to remain intact, indicating a low risk of earthquake or seismic-related ground disturbance. Given all design should meet relevant Australian Standards for earthquake actions seismic risk is considered low.
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Geotechnical	Constructability	Unknown	Limited data available therefore risk associated with potential highly reactive soils and collapsible soils. Potential to encounter shallow rock increasing excavation risk and construction costs. Interaction with existing uncontrolled fill from civil works resulting increased construction and design costs.
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Flooding and Erosion	Erosion Potential	Moderate	Soil landscape mapping for water erosion and wind erosion is not available for the proposed site. CSIRO (2016) Maps of Australian soil loss water by erosion derived using the RUSLE indicates the site has a K Factor of 0.029 corresponding to a soil erodibility class of moderate. Nearby groundwater monitoring bores encountered CLAY, corresponding to a moderate to high K factor of 0.047 to 0.058, as per Table F3 of the IECA (2008) guidelines. Erosion and sediment control measures are tailored to specific design and construction requirements of the project given the lack of data the erosion risk potential is considered moderate
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Flooding and Erosion	IECA Erosion Hazard	High	Average Slope of Disturbance: Unknown – Average Slope of Total Footprint Applied - 3.35% Soil Classification: SM,SC,MH,CH Types Emerson Class: Untested – IECA Recommended Value Applied Duration of Soil Disturbance: Unknown – Potential 6-month timeframe applied Area of Disturbance: Unknown – Total Footprint of 4.26ha Waterway Disturbance: None mapped Rehabilitation Method: Unknown – Considered unlikely that 90% or more will be seeded without mulching Receiving Waters: Discharges flow to Tributary of Elvire River Subsoil Exposure: Unknown: Considered Unlikely External Catchments: Small Upstream Catchment – can be diverted Road Construction: Unknown - Considered Possible pH of Soil to be revegetated: Untested - IECA Recommended Value Applied
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Register Search	Low	Not listed on Contaminated Sites Register
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Local Planning Site	High	Shire of Halls Creek Scheme No. 2 Site is allocated general industry land use within the public purpose (airport area). Lot zoned as General industry (halls creek), Strategic infrastructure (halls creek), Residential (halls creek) R20 (halls creek) No Restricted or Additional Uses Special Control Area - Special Control Area - Environment - SCA2 (halls creek) No DAP Applications found within 200 metres
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Historical Records	Low	No business listings found
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Aerial Imagery Review	Low	The existing site was cleared and constructed between August 2005 and July 2010. The site appears to be relatively unchanged since construction
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Former Fuel Storage	High	Fuel storage is visible on the site in above ground tanks
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Former Waste Disposal	Low	No evidence of waste disposal from aerial review
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Former Industrial Land Use	High	Former and current industrial use for power generation
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Previous Contamination Investigations	Low	No records of previous investigations
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Previous Remediation Works	Low	No records of remediation works
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Nearby Service Stations	Moderate	Shell service station approximately 900 m north-east
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Nearby Fire Stations	Moderate	Fire station approximately 700 m north-east. Airport is located within same property lot and assumed to contain fuel storage and fire fighting equipment
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Baseline Contamination	Nearby Waste Disposal / Treatment	Low	No properties on contaminated sites register within 500m - map printed. Contaminated site listed approximately 1.5km from the site (remediated for restricted use) with hydrocarbon impacted soils noted
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Flooding and Erosion	Coastal Flood Risk	N/A - Not Assessed	Not Assessed - Assessed for Renewables Sites Only
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Flooding and Erosion	Waterways Within Site Footprint	N/A - Not Assessed	Not Assessed - Assessed for Renewables Sites Only
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Flooding and Erosion	Unmapped Watercourses Within Site Footprint	N/A - Not Assessed	Not Assessed - Assessed for Renewables Sites Only
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	N/A - Not Assessed	Not Assessed - Assessed for Renewables Sites Only
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Groundwater and Acid Sulfate Soil	Groundwater Level	N/A - Not Assessed	Not Assessed - Assessed for Renewables Sites Only
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Groundwater and Acid Sulfate Soil	Groundwater Quality	N/A - Not Assessed	Not Assessed - Assessed for Renewables Sites Only
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	N/A - Not Assessed	Not Assessed - Assessed for Renewables Sites Only
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	N/A - Not Assessed	Not Assessed - Assessed for Renewables Sites Only
Halls Creek	Site 9	Existing Halls Creek Power Station	New Thermals	Subterranean Fauna	Subterranean Environment	N/A - Not Assessed	Not Assessed - Assessed for Renewables Sites Only
Halls Creek	Site 10	Subsite C3	Solar, BESS	Geotechnical	Soil Reactivity	Unknown	No site specific geotechnical data available. Review of groundwater monitoring bore logs located within 2.0 km of the proposed site and intersecting regional geological unit C2s, suggests the subsurface may comprise of CLAY and / or SAND underlain by volcanic and sedimentary rock. It is noted that no groundwater monitoring bores are drilled within the C2f unit which makes up majority of the site. Proposed site is underlain by geological unit C2s and C2f, suggesting that the site is underlain by aeolian deposits comprising Sand and Silt, and ferricrete and laterite (iron rich soil), respectively. Given the lack of data the risk or impact of soil reactivity to construction is considered unknown.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Geotechnical	Collapsibility	Unknown	Proposed site is underlain by geological unit C2s and C2f, suggesting that the site is underlain by aeolian deposits comprising Sand and Silt, and ferricrete and laterite (iron rich soil), respectively. Review of groundwater monitoring bore logs located within 2 km of the proposed site and within same regional geological units underlying the area, suggests the subsurface may comprise of CLAY underlain by sedimentary and volcanic rock. Based on the limited data available there is potential to encounter collapsible soils, however without further geotechnical investigation the risk of collapsible soils is considered unknown.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Geotechnical	Dispersion Potential	Unknown	No site specific geotechnical or publicly available data is available. Dispersion characteristics of soil vary with subsurface depth, therefore without construction details and soil quality testing the risk level is considered unknown.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Geotechnical	Excavatability	High	No site specific geotechnical data available. Regional geology mapping indicates the site that is underlain by SAND or SILT, and ferricrete or lateritic soils. Review of groundwater monitoring bore logs located within 2 km of the proposed site and within same regional geological units underlying the area, suggests the subsurface may comprise of CLAY underlain by sedimentary volcanic rock. Lateritic soils in dry conditions undergoes hardening due to the cementation of the iron oxides. Which can behave as rock with varying strength. Due to the lack of site specific information and potential for encountering hardened lateritic soils. It is anticipated that if conventional civil earthworks equipment is utilised during construction there will be a high excavation risk. It is noted that this could be classified as an unknown risk given the limited data.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Geotechnical	Seismic Risk	Low	Australia is located central to the Indo-Australian tectonic place and the proposed site is far from active plate boundaries, generally seismic risk in Australia is considered low. Any works should be designed to meet relevant Australian Standards (AS1170.4). As per AS1170.4-2007 Halls Creek has a hazard design factor (Z) of 0.11. Further geotechnical investigations are required to determine site class. Given all design should meet relevant Australian Standards for earthquake actions seismic risk is considered low.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Geotechnical	Constructability	Unknown	Limited data available therefore risk associated with potential highly reactive soils and collapsible soils resulting in increased construction and design costs to allow for increased settlement. Potential for encountering hardened lateritic soils dependent on moisture conditions, may require larger civil plant to undertake excavation required.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Flooding and Erosion	Erosion Potential	Moderate	Soil landscape mapping for water erosion and wind erosion is not available for the proposed site. CSIRO (2016) Maps of Australian soil loss water by erosion derived using the RUSLE indicates the site has a K Factor of 0.029 corresponding to a soil erodibility class of moderate. Erosion and sediment control measures are tailored to specific design and construction requirements of the project given the lack of data the erosion risk potential is considered moderate.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Flooding and Erosion	IECA Erosion Hazard	High	Average Slope of Disturbance: Unknown – Average Slope of Total Footprint Applied - 3.06% Soil Classification: SM,SC,MH,CH Types Emerson Class: Untested – IECA Recommended Value Applied Duration of Soil Disturbance: Unknown – Potential 6-month timeframe applied Area of Disturbance: Unknown – Total Footprint of 117ha Waterway Disturbance: Potential impact to a mapped watercourse Rehabilitation Method: Unknown – Considered unlikely that 90% or more will be seeded without mulching Receiving Waters: Discharges flow to Tributary of Elvire River Subsoil Exposure: Unknown: Considered Unlikely External Catchments: Small Upstream Catchment – can be diverted Road Construction: Unknown - Considered Possible pH of Soil to be revegetated: Untested - IECA Recommended Value Applied
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Register Search	Very Low	Not listed on Contaminated Sites Register
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Local Planning Site	Very Low	Zoned as pastoral and within a development investigation area. Portions of the lot to the east are allocated as either priority 2 or priority 3 public drinking water source area
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Historical Records	Very Low	No former business records
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Aerial Imagery Review	Very Low	Aerial imagery from 2004 to 2022 shows the site is vacant land that does not appear to have been cleared or disturbed
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Former Fuel Storage	Very Low	No indication of former fuel storage
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Former Waste Disposal	Very Low	No indication of former waste disposal
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Former Industrial Land Use	Very Low	No indication of industrial land use
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Previous Contamination Investigations	Very Low	No records of previous investigations
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Previous Remediation Works	Very Low	No records of remediation works
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Nearby Service Stations	Very Low	No service station <100m from site. Nearest service station approximately 3.5 km north-east
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Nearby Fire Stations	Low	Airport is located approximately 2 km east. No fire stations within 500m. Nearest fire station approximately 3.5 km north-east
Halls Creek	Site 10	Subsite C3	Solar, BESS	Baseline Contamination	Nearby Waste Disposal / Treatment	Low	No properties on contaminated sites register within 500m - map printed. Remediated site approximately 4km north-east of the site
Halls Creek	Site 10	Subsite C3	Solar, BESS	Flooding and Erosion	Coastal Flood Risk	Very Low	No coastal influences.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Flooding and Erosion	Waterways Within Site Footprint	Low	Upper reaches of two small tributaries of Halls Creek is located within the site footprint. The northern watercourse originates on the upstream side of the Great Northern Highway and has an approximate catchment area of 25ha. The more southern watercourse, originates from within the site footprint with an upstream catchment of 13ha. These catchment areas are small and likely manageable with considerations to site layout.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Flooding and Erosion	Unmapped Watercourses Within Site Footprint	Very Low	No additional surface water considerations further to the mapped watercourses already described.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Flooding and Erosion	Regional Flooding or Floodplain Interaction With Site Footprint	Very Low	None identified from available information
Halls Creek	Site 10	Subsite C3	Solar, BESS	Groundwater and Acid Sulfate Soil	Groundwater Level	Low	Available groundwater level data is limited and dated. Determination of current groundwater levels is required. No groundwater drawdown is anticipated and the risk to groundwater level is low, however any excavations should consider the potential to intersect the current groundwater level.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Groundwater and Acid Sulfate Soil	Groundwater Quality	Low	Available groundwater quality data is limited and dated and determination of current groundwater quality is required.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Groundwater and Acid Sulfate Soil	Groundwater Dependent Ecosystems	Very Low	No GDE classification within the vicinity.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Groundwater and Acid Sulfate Soil	Acid Sulfate Soil	Very Low	The site and surrounds are classified as having an extremely low probability of acid sulfate soil occurrence, however the confidence level for this classification is low. The risk to construction is considered very low, however any excavation work will require further investigation.
Halls Creek	Site 10	Subsite C3	Solar, BESS	Subterranean Fauna	Subterranean Environment	Very Low	No site-specific data available. Suitable habitats for subterranean fauna may exist in the project area. Any activities that may intersect the groundwater will require further investigation to identify subterranean assemblages however due to the depth of groundwater the risk is considered very low.